The appearance of an article in the NEW ENGLAND JOURNAL OF MEDICINE in which Dr. Henry Satterlee propounding his theories on arsenic became the basis for a story in the NEW YORK HERALD TRIBUNE. The TRIBUNE the following day ran a TIRC comment.

NEW YORK HERALD TRIBUNE New York, New York October 7, 1960

Science ... Medicine

## Arsenic - Tobacco Link **Pointed Out by Doctor**

By Stuart H. Loory

Imagine the fear that swept open fires, absorbing arsenic through the British Isles in from pesticides.

November, 1900, when 6,000 It took a Royal Commission willhards and only in the same of the s November, 1900, when 6,000 It took a Royal Commission, millhands and coal miners of the Manchester-Salford-Liver-pool districts came down with arsenic poisoning from drinking adulterated beer.

It took a Royal Commission, appointed by King Edward VII and headed by the famous physicist, Lord Kelvin, to come up with the findings. In doing adulterated beer. adulterated beer.

still is—as the "backbone" of amount of volatile (gaseous) Great Britain. A New-York arsenic given off by the fires. Tribune correspondent in Lon- The method, Dr. Satterlee epidemic."

and retired from general prac- British method. ing the relationship between ing epidemic. In his words: cigarette smoking, air pollution "In 1960 it is sobering and and lung cancer in 1960.

## Scientific Lesson

health menaces.

used in the fires gave off large solution demands."

duiterated beer.

so, the commission developed
Beer was known then—as it a method for determining the

don wrote of the arsenic-pol- wrote in the current "New Eng-soning scare: "The workingman land Journal of Medicine" out now empties his pewter pint yesterday, has since been for-with more or less fear and gotten by researchers. Dr. Sat-trembling. Seventy died in the terles wrote researchers have been ignoring arsenic as a At that time, few in the U.S. smoke (tobacco and industrial) read the reports with more care pollutant because they have no than a young hospital intern good way of measuring its from New Hampshire named Dr. presence in its gaseous form. Henry S. Satterlee. Yesterday He suggests that researchers Dr. Satterlee, now eighty-six carefully at the sixty-year-old ship.

tice in Newport, N. H., pointed Perhaps more important, but out in a telephone interview of a philosophic rather than a two lessons learned from the scientific nature, Dr. Satterlee 1900 beer-poisoning epidemic, suggests another lesson to be of interest to researchers study- learned from the beer poison-

edifying to reflect that a national challenge to British pub-One lesson is scientific and lic-health administration was concerns arsenic as a cancer capable of evoking a competent cause. The other is philosophic and well-organized inquest that and concerns the duty of gov- promptly discovered . . . a conernment to look into public structive solution to the problem.

Investigators found that ar- By contrast, it is depressing senic was finding its way into to contemplate present-day the British brew two ways- inertia in the smoking-cancer through glucose, a cheap sugar problem, frustrated in a tangle published five papers on arsenic used as a substitute of the more of controversy and mixed moti- in tobacco. Thirty years ago expensive malt, and through vation, without prospect of he began a study of vacuum curing the barley and hops over authoritative organization and cleaner dust for arsenic conopen malting fires. The coke co-ordination of action that its

industrial interests and the government, which receives large revenues from cigarette taxes, of refusing to face up to the smoking-cancer relation-

Dr. Satterlee spends his time in retirement looking into arsenic as a cancer-causing agent in cigarette smoking. He is convinced there is a link In 1951, he found American cigarettes contained forty times more arsenic than cigarettes made from Oriental tobaccos. He cites studies showing that smokers of American cigarettes are more likely to suffer lung cancer than Oriental cigarette smokers.

Dr. Satterlee's interest in cancer is an outgrowth of his earlier interest in arsenic poisoning, which induces shingles, a disease of the nerves. He has tent. He found arsenic in concentrations of arsenic. To- Over the phone, Dr. Satterlee then went on to measure arsenic bacco, today, like the British accused tobacco product manubarley of 1900, is cured over facturers, other commercial and cigarettes.

NEW YORK HERALD TRIBUNE New York, New York October 8, 1960

## Refutes Arsenic In Tobacco Link To Lung Cancer

Dr. Robert C. Hockett, associate scientific director of the Tobacco Industry Research Committee, took issue yesterday with the reported suggestion that arsenic in tobacco may be linked to lung cancer.

Dr. Henry S. Satterlee, of Newport, N. H., had reviewed the arsenic-lung cancer situation in an article in the current "New England Medical Journal," one of the leading scientific journals in the country.

In his review, Dr. Satterlee said he is convinced there is a link between the arsenic in cigarettes and the appearance of lung cancer.

Dr. Hockett commented:

"The research into this subject has included: analyses of tobacco smoke, the soil in which the tobacco is grown, tests of smokers and non-smokers to determine the difference in arsenic absorption and inhalation tests with animals.

"All of these have failed to show any evidence that arsenic in tobacco has anything to do with lung cancer."

He also said that "Dr. Satterlee cites no contrary research and has done no recent re-earch n this that we know of."